

Process and Device for Electronic Voting
Michael Bryan Kelly

CLAIMS

I claim

- 1) An electronic voting system comprising
 - a) a selection system providing the means for a voter to
 - i) view voting options,
 - ii) make voting selections,
 - iii) cause said selections to be printed on a ballot whereby said selections become part of the contents of said ballot, and
 - b) an electronic recording device providing the means to
 - i) accept said ballot, and
 - ii) read said selections from said ballot, and
 - iii) accumulate counts of selections from a plurality of said ballots, and
 - iv) retain a plurality of said ballots,
 - c) wherein said selection system has been designed or implemented such that
 - i) all information containing inputs to said selection system are generated by activities of said voter, and
 - ii) all outputs of said selection system are the said ballot, and
 - d) and all inputs to said recording system are either said ballot or a plurality of said ballots, and
 - e) all outputs of recording system generated during the voting process consists of said accumulated counts and said plurality of ballots that are retained within said recording

Process and Device for Electronic Voting
Michael Bryan Kelly

device while said recording device is engaged in the voting process, wherein

- f) only after the voting process for said recording device has been concluded or suspended, can said outputs of said recording system be accessed and
 - g) said outputs of said recording system are accessible only to members of the polling team in the physical presence of said recording system.
- 2) The electronic voting system of claim 1 wherein all said inputs to and all said outputs of said selection system and said recording system are observable by a person of ordinary skill in computer usage such that said person can ascertain that said outputs of said recording device are indeed results of proper usage of said electronic voting system.
- 3) The electronic voting system of claim 1 wherein said electronic voting system contains a verifying device providing a means for reading said contents of said ballot, and displaying said contents of said ballot to said voter such that said voter is able to ascertain that said contents of said ballot is in agreement with said selections previously made by said voter.
- 4) The electronic voting system of claim 1 wherein said electronic voting system prints said ballot using publicly available schemes providing the means for said ballot to be read by publicly available devices so said contents of said ballot can be ascertained to be as intended by said voter.
- 5) A method or process of secure voting comprising the steps of
- a) making voting selections, and
 - b) producing a physical ballot readable by human and by machine, and
 - c) a recording reading of said ballot by machine in order to accumulate a plurality of said

Process and Device for Electronic Voting
Michael Bryan Kelly

voter selections.

- 6) The secure voting method of claim 5 wherein there is an additional verification reading of said ballot by machine and an observation of the machine read contents of said ballot to ensure correctness of said contents of said ballot.
- 7) The secure voting method of claim 6 wherein said additional reading of said ballot is performed between said printing of said ballot and said recording reading of said ballot.